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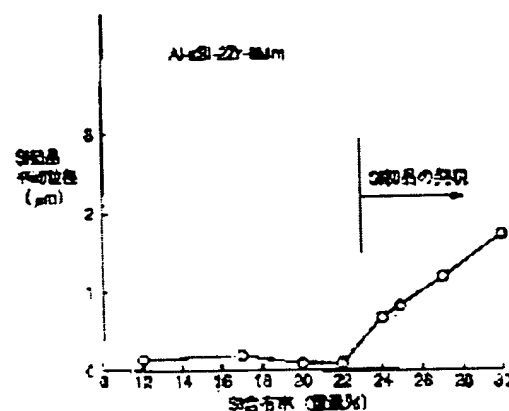
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(54) ALUMINUM ALLOY AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an aluminum alloy excellent in toughness without deteriorating strength and wear resistance.

SOLUTION: The content of silicon in the aluminum alloy is 17 to 23 wt.%, and the average grain size of silicon crystals is $\leq 1 \mu\text{m}$. The content of zirconium is to 7wt.%. Further, the total content of at least one kind among yttrium, lanthagum, cerium, samarium, neodymium, and misch metal is 5 to 20 wt.%, and the balance is composed of aluminum with inevitable impurities.



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